

SEP 27 2006

PTO/SB/08a (08-03)

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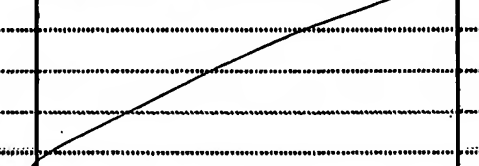
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Application Number	10/635,108
Filing Date	August 5, 2003
First Named Inventor	SCARINGE, S.
Art Unit	1642 <i>1634</i>
Examiner Name	SISSON, Bradley
Attorney Docket Number	13561US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BZA		Number-Kind Code ² (if known)			
		US- RE. 34,069	9-15-1992	Koster et al.	
		US- 5,747,244	5-5-1998	Sheridan et al.	
		US- 5,869,696	2-9-1999	Reddy et al.	
		US- 5,874,568	2-23-1999	Iwai	
		US- 5,889,136	3-30-1999	Scaringe et al.	
		US- 5,932,718	8-3-1999	Letsinger et al.	
		US- 6,008,400	12-28-1999	Scaringe et al.	
		US- 6,111,086	8-29-2000	Scaringe	
		US- 6,210,880 B1	4-3-2001	Lyamichev et al.	
		US- 6,294,664 B1	9-25-2001	Ravikumar et al.	
		US- 6,362,323 B1	3-26-2002	Usman et al.	
		US- 6,380,377 B1	4-30-2002	Dattagupta	
		US- 6,489,464 B1	12-3-2002	Agrawal et al.	
		US- 6,596,490 B2	7-22-2003	Dattagupta	
BZA		US- 6,677,471 B2	1-13-2004	Cheruvallath et al.	
		US- 6,696,255 B2	2-24-2004	Dattagupta	
		US- 2003/0194741A1	10-16-2003	Koster et al.	
	US- 2004/0096947A1	5-20-2004	Sanghvi et al.		

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear ²	Footnote
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
						

Examiner Signature	<i>B. L. Lison</i>	Date Considered	1-24-05
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		Number-Kind Code ² (if known)			
B.L.		US-2004/0152905A1	8-5-2004	Guzaev et al.	
		US-			
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Signature

B.L. Sisson

Date
Considered

1-24-05

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Attorney Docket Number	13561US

Sheet 3 of 3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BJS		Glen Research Corporation Catalog, 1999.	
		PILS, Werner, et al., Flexible non-nucleotide linkers as loop replacements in short double helical RNAs, Nucleic Acids Research, Vol. 28, No. 9, pages 1859-1863 (2000).	
		SCARINGE, Stephen A., et al., Novel RNA Synthesis Method Using 5'-O-Silyl 1-2'-O-orthoester Protecting Groups, J. Am. Chem. Soc., Vol. 120, No. 45, pages 11820-11821 (1998).	
		SHCHYOLKINA, A.K., Protein-free parallel triple-stranded DNA complex formation, Nucleic Acids Research, 2001, Vol. 29, No. 3, pages 986-995 (2001).	
BJS		THELWELL, Nicola, et al., Mode of action and application of Scorpion primers to mutation detection, Nucleic Acids Research 2000, Vol. 28, No. 19, pages 3752-3761 (2000).	

Examiner Signature	B. L. Sisson	Date Considered	1-24-05
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Application Number	10/635.108
Filing Date	5 August 2003
First Named Inventor	SCARINGE, Stephen
Art Unit	1642 1634
Examiner Name	Sisson, Bradley
Attorney Docket Number	13561US

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U. S. PATENT DOCUMENTS

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Examiner Name	Sisson, Bradley
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NON PATENT LITERATURE DOCUMENTS

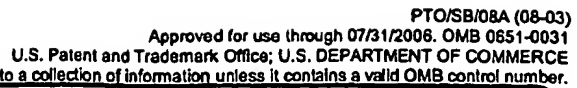
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BJA		International Search Report for International Application No. PCT/US03/24658	

Examiner Signature	B. L. Sisson	Date Considered	1-24-05
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Application Number	10/635,108
Filing Date	05 August 2003
First Named Inventor	Scaringe
Art Unit	To be Assigned
Examiner Name	To be Assigned
Attorney Docket Number	13561

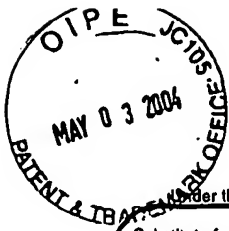
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First Named Inventor

Scaringe

Art Unit

~~To be Assigned~~ 1634

Examiner Name

To be Assigned 5/55 ON B. 2.

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International Search Report dated 20 April 2004

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